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(Modified) PTO/SB/08A-B (10-96)
Approved for use through 10/31/99. OMB 0651-0031

Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Complete if Known	
	Application Number	09/656549 09/721,507
	Filing Date	September 6, 2000
	First Named Inventor	Joseph A. Affholter
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
	Attorney Docket Number	02-104240US

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
1828		WO	00/00632		Phylos, Inc.	01-06-2000		
828		WO	00/09679		Proteus	02-24-2000		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T	

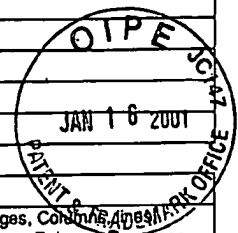
Examiner Signature	<i>Diana P. [Signature]</i>	Date Considered	7/19/01
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	Application Number	09/056549 09/721,507
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	Group Art Unit	1645
	Examiner Name	Unassigned
	Attorney Docket Number	02-104240US



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		Number	Kind Code (if known)			
DM	AA	5,512,463		Stemmer	04-30-1996	
	AB	5,514,588		Varadaraj	05-07-1996	
	AC	5,605,793		Stemmer	02-25-1997	
	AD	5,763,239		Short et al.	06-09-1998	
	AE	5,789,228		Lam et al.	08-04-1998	
	AF	5,811,238		Stemmer et al.	09-22-1998	
	AG	5,814,473		Warren et al.	09-29-1998	
	AH	5,824,469		Horwitz et al.	10-20-1998	
	AI	5,830,696		Short	11-03-1998	
	AJ	5,830,721		Stemmer et al.	11-03-1998	
	AK	5,834,252		Stemmer et al.	11-10-1998	
	AL	5,837,458		Minushull et al.	11-17-1998	
	AM	5,866,363		Pieczenik	02-02-1999	
	AN	5,876,997		Kretz	03-02-1999	
	AO	5,925,749		Mathur, et al.	07-20-1999	
	AP	5,928,905		Stemmer, et al.	07-27-1999	
	AQ	5,939,250		Short, Jay M.	08-17-1999	
	AR	5,939,300		Robertson, et al.	08-17-1999	
	AS	5,942,430		Robertson, et al.	08-24-1999	
	AT	5,948,666		Callen, et al.	09-07-1999	
	AU	5,958,672		Short, Jay M.	09-28-1999	
	AV	5,958,751		Murphy, et al.	09-28-1999	
	AW	5,962,258		Mathur, et al.	10-05-1999	
	AX	5,962,283		Warren et al.	10-05-1999	
	AY	5,965,408		Short, Jay M.	10-12-1999	
	AZ	5,985,646		Murphy, et al.	11-16-1999	
DM	BA	6,001,574		Short et al.	12-14-1999	

Examiner Signature	Diana B.	Date Considered	7/19/04
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	Group Art Unit	1645
	Examiner Name	Unassigned
	Attorney Docket Number	02-104240US

BB	6,004,788	Short	12-21-1999	
BC	6,030,779	Short	02-29-2000	
BD	6,054,267	Short	04-25-2000	
BE	6,117,679	Stemmer	09-12-2000	
BF	6,096,548	Stemmer	08-01-2000	
BG	6,132,970	Stemmer	10-17-2000	

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		Office	Number	Kind Code (if known)				
DM	BH	WO	97/07205		Novo Nordisk A/S	02-27-1997		
	BI	WO	97/20078		Affymax Technologies	06-05-1997		
	BJ	WO	97/25410		Novo Nordisk A/S	07-17-1997		
	BK	WO	97/35957		Maxygen, Inc.	10-02-1997		
	BL	WO	97/35966		Maxygen, Inc.	10-02-1997		
	BM	WO	97/44361		Recombinant Biocatalysis Inc.	11-27-1997		
	BN	WO	97/48416		Recombinant Biocatalysis, Inc.	12-24-1997		
	BO	WO	97/48717		Recombinant Biocatalysis Inc	12-24-1997		
	BP	WO	97/48794		Recombinant Biocatalysis Inc	12-24-1997		
	BQ	WO	98/00526		Recombinant Biocatalysis Inc	01-08-1998		
	BR	WO	98/01581		Recombinant Biocatalysis Inc	01-15-1998		
	BS	WO	98/13485		Maxygen, Inc.	04-02-1998		
	BT	WO	98/13487		Maxygen, Inc.	04-02-1998		
	BU	WO	98/24799		Diversa Corp.	06-11-1998		
DM	BV	WO	98/27230		Maxygen, Inc.	06-25-1998		

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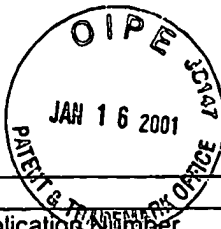
Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>	Complete if Known	
	Application Number	09/636549 09/721, 307
	Filing Date	September 6, 2000
	First Named Inventor	Joseph A. Affholter
	Group Art Unit	1645
	Examiner Name	Unassigned
	Attorney Docket Number	02-104240US

12/11	BW	WO	98/28416		Novo Nordisk A/S	07-02-1998	
	BX	WO	98/31837		Maxygen, Inc.	07-23-1998	
	BY	WO	98/36080		Maxygen, Inc.	08-20-1998	
	BZ	WO	98/41622		Novo Nordisk A/S	09-24-1998	
	CA	WO	98/41623		Novo Nordisk A/S	09-24-1998	
	CB	WO	98/41653		Novo Nordisk A/S	09-24-1998	
	CC	WO	98/42832		California Institute of Technology	10-01-1998	
	CD	WO	98/48034		Diversa Corp.	10-29-1998	
	CE	WO	98/58085		Diversa Corp.	12-23-1998	
	CF	WO	99/07837		Diversa Corp.	02-19-1999	
	CG	WO	99/08539		Diversa Corp.	02-25-1999	
	CH	WO	99/10472		Diversa Corp.	03-04-1999	
	CI	WO	99/10539		Diversa Corp.	03-04-1999	
	CJ	WO	99/19518		Diversa Corp.	04-22-1999	
	CK	EP	0911396A2		Maxygen, Inc.	04-28-1999	
	CL	WO	99/21979		Maxygen, Inc.	05-06-1999	
	CM	EP	0911396A3		Maxygen, Inc.	05-06-1999	
	CN	WO	99/23107		Maxygen, Inc.	05-14-1999	
	CO	WO	99/23236		Diversa Corp.	05-14-1999	
	CP	EP	0934999A1		Maxygen, Inc.	08-11-1999	
	CQ	WO	99/41368		Maxygen, Inc.	08-19-1999	
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	CS	WO	99/41383		Maxygen, Inc.	08-19-1999	
	CT	WO	99/41402		Maxygen, Inc.	08-19-1999	
	CU	WO	99/45154		Diversa Corp.	09-10-1999	
	CV	WO	99/57128		Maxygen, Inc.	11-11-1999	
12/11	CW	WO	99/65927		Maxygen, Inc.	12-23-1999	

Examiner Signature	<i>Diana P...</i>	Date Considered	7/19/04
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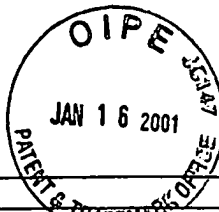
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	First Named Inventor	Joseph A. Affholter
	Group Art Unit	1645
	Examiner Name	Unassigned
	Attorney Docket Number	02-104240US

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
MM	CX	Chang, C., et al. (1999) "Evolution of a cytokine using DNA family shuffling." <u>Nature Biotechnology</u> 17:793-797.	
	CY	Christians, F.C. et al., (1999) "Directed evolution of thymidine kinase for AZT phosphorylation using DNA family shuffling." <u>Nature Biotechnology</u> 17:259-264.	
	CZ	Crameri et al., (1993) "10(20)-Fold aptamer library amplification without gel purification," <u>Nuc. Acids Res.</u> 21(18):4410.	
	DA	Crameri, A. & Stemmer W.P.C. (1995) "Combinatorial multiple cassette mutagenesis creates all the permutations of mutant and wildtype cassettes." <u>Biotechniques</u> 18:194-195.	
	DB	Crameri, A. et al. (1996) "Improved green fluorescent protein by molecular evolution using DNA shuffling." <u>Nature Biotechnology</u> 14:315-319.	
	DC	Crameri, A. et al. (1996) "Construction and evolution of antibody-phage libraries by DNA shuffling." <u>Nature Medicine</u> 2:100-103.	
	DD	Crameri, A. et al., (1997) "Molecular evolution of an arsenate detoxification pathway by DNA shuffling." <u>Nature Biotechnology</u> 15:436-438	
	DE	Crameri, A. et al., (1998) "DNA shuffling of a family of genes from diverse species accelerates directed evolution." <u>Nature</u> 391:288-291.	
	DF	Gates, C.M. et al., (1996) "Affinity selective isolation of ligands from peptide libraries through display on a lac repressor 'headpiece dimer'." <u>Journal of Molecular Biology</u> 255:373-386.	
	DG	Minshull, J., Stemmer, W.P.C. (1999) "Protein evolution by molecular breeding." <u>Current Opinion in Chemical Biology</u> 3:284-290.	
	DH	Ness, J. et al., (1999) "DNA shuffling of subgenomic sequences of subtilisin." <u>Nature Biotechnology</u> 17:893-896.	
	DI	Patten, P.A. et al., (1997) "Application of DNA Shuffling to Pharmaceuticals and Vaccines." <u>Current Opinion in Biotechnology</u> 8:724-733.	
	DJ	Stemmer, W.P.C. (1994) "DNA Shuffling by random fragmentation and reassembly: In vitro recombination for molecular evolution." <u>PNAS</u> 91:10751	
	DK	Stemmer, W.P.C. (1994) "Rapid evolution of a protein in vitro by DNA shuffling." <u>Nature</u> 370:389-391.	
	DL	Stemmer, W.P.C. (1995) "The Evolution of Molecular Computation." <u>Science</u> 270:1510	
	DM	Stemmer, W.P.C. (1995) "Searching Sequence Space." <u>Bio/Technology</u> 13:549-553.	
MM	DN	Stemmer, W.P.C. (1996) "Sexual PCR and Assembly PCR." In: <u>The Encyclopedia of Molecular Biology</u> . VCH Publishers, New York. pp. 447-457.	
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			7/19/04

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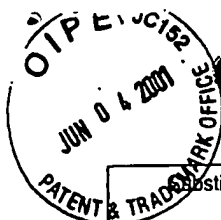
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	Application Number	09/656549 09/721,507
	Filing Date	September 6, 2000
	First Named Inventor	Joseph A. Affholter
	Group Art Unit	1645
	Examiner Name	Unassigned
	Attorney Docket Number	02-104240US

	DO	Stemmer, W.P.C. & Soong, N.W. (1999) "Molecular breeding of viruses for targeting and other clinical properties." <u>Tumor Targeting</u> 4:59-62.	
	DP	Zhang, J. et al., (1997) "Directed evolution of an effective fucosidase from a galactosidase by DNA shuffling and screening." <u>Proceedings of the National Academy of Sciences, USA</u> 94:4504-4509.	

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		Number	Kind Code (if known)			
mm	AA	5,756,316		Schellenberger	05-26-1998	RECEIVED JUN 07 2001 TECH CENTER 1600/2900
	AB	5,783,431		Peterson et al.	07-21-1998	
	AC	5,798,208		Crea	08-25-1998	
	AD	5,824,485		Thomson, et al.	10-20-1998	
	AE	5,830,650		Crea	11-03-1998	
	AF	6,057,103		Short	05-02-2000	
	AG	6,165,793		Stemmer	12-26-2000	
	AH	6,168,919		Short	01-02-2001	
	AI	6,171,820		Short	01-09-2001	
	AJ	6,174,673		Short, et al.	01-16-2001	
mm	AK	6,180,406		Stemmer	1-30-2001	

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		Office	Number	Kind Code (if known)				
	AL	EP	0527809		Grea, Roberto	08-19-1995		
mm	AM	WO	95/22625		Affymax Tech. N.V.	08-24-1995		
	AN	WO	96/33207		Glaxo Group Limited	10-24-1996		
	AO	WO	97/33957		Amway Corp.	09-18-1997		
	AP	WO	98/42727		SRI International	10-01-1998		
	AQ	WO	99/29902		California Institute of Technology	06-17-1999		
	AR	WO	00/42560		Maxygen, Inc.	07-20-2000		
	AS	WO	00/42561		Maxygen, Inc.	07-20-2000		
	AT	WO	00/46344		Diversa Corp.	08-10-2000		
	AU	WO	00/53744		Diversa Corp.	09-14-2000		
	AV	WO	00/58517		Diversa Corp.	10-05-2000		

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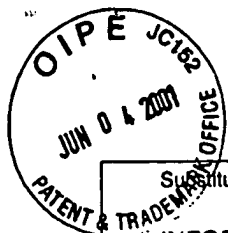
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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	AW	Arnold (1993) "Protein engineering for unusual environments" <i>Current Opinion in Biotechnology</i> 4:450-455	
	AX	Arkin & Youvan (1992) <i>Proc. Natl. Acad. Sci. USA</i> 89:7811-7815	
	AY	Arkin and Youvan (1992) "Optimizing nucleotide mixtures to encode specific subsets of amino acids for semi-random mutagenesis" <i>Biotechnology</i> 10:297-300	
	AZ	Bass et al. (1988) "Mutant Trp repressors with new DNA-binding specificities" <i>Science</i> 242:240-245	
	BA	Botstein & Shortle (1985) "Strategies and applications of in vitro mutagenesis" <i>Science</i> 229:1193-1201	
	BB	Breyer and Sauer (1989) "Mutational analysis of the fine specificity of binding of monoclonal antibody 51F to lambda repressor" <i>J. Biol. Chem.</i> 264:13355-60	
	BC	Caldwell et al. (1992) <i>PCR Methods Applic.</i> 2:28-33	
	BD	Carter (1986) "Site-directed mutagenesis" <i>Biochem. J.</i> 237:1-7	
	BE	Carter (1987) "Improved oligonucleotide-directed mutagenesis using M13 vectors" <i>Methods in Enzymol.</i> 154: 382-403	
	BF	Carter et al. (1985) "Improved oligonucleotide site-directed mutagenesis using M13 vectors" <i>Nucl. Acids Res.</i> 13: 4431-4443	
	BG	Dale et al. (1996) "Oligonucleotide-directed random mutagenesis using the phosphorothioate method" <i>Methods Mol. Biol.</i> 57:369-374	
	BH	delCardayre, S.B. and Raines, R.T. (1995) <i>Anal. Biochem.</i> 225, 176	
	BI	Delegrave and Youvan (1993) <i>Biotechnology Research</i> 11:1548-1552	
	BJ	Eghtedarzadeh & Henikoff (1986) "Use of oligonucleotides to generate large deletions" <i>Nucl. Acids Res.</i> 14:5115	
	BK	Fritz et al. (1988) "Oligonucleotide-directed construction of mutations: a gapped duplex DNA procedure without enzymatic reactions in vitro" <i>Nucl. Acids Res.</i> 16: 6987-6999	
	BL	Grundström et al. (1985) "Oligonucleotide-directed mutagenesis by microscale 'shot-gun' gene synthesis" <i>Nucl. Acids Res.</i> 13: 3305-3316	
	BM	Guzman et al. (1995) "Tight regulation, modulation, and high-level expression by vectors containing the arabinose PBAD promoter" <i>J. Bacteriol.</i> 177(14):4121-4130	
	BN	Jirholt et al. (1998) "Exploiting sequence space: shuffling in vivo formed complementarity determining regions into a master framework" <i>Gene</i> 215: 471	

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	First Named Inventor	Joseph A. Affholter
	Group Art Unit	1645
	Examiner Name	Unassigned
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BO	Johnson, M.G. (1996) <i>Epicentre Forum</i> 3(4),7
BP	Kramer & Fritz (1987) <i>Methods in Enzymol.</i> "Oligonucleotide-directed construction of mutations via gapped duplex DNA" 154:350-367
BQ	Kramer et al. (1984) "Point Mismatch Repair" <i>Cell</i> 38:879-887
BR	Kramer et al. (1984) "The gapped duplex DNA approach to oligonucleotide-directed mutation construction" <i>Nucl. Acids Res.</i> 12: 9441-9456
BS	Kramer et al. (1988) "Improved enzymatic in vitro reactions in the gapped duplex DNA approach to oligonucleotide-directed construction of mutations" <i>Nucl. Acids Res.</i> 16: 7207
BT	Kunkel (1985) "Rapid and efficient site-specific mutagenesis without phenotypic selection" <i>Proc. Natl. Acad. Sci. USA</i> 82:488-492
BU	Kunkel (1987) "The efficiency of oligonucleotide directed mutagenesis" in <i>Nucleic Acids & Molecular Biology</i> (Eckstein, F. and Lilley, D.M.J. eds., Springer Verlag, Berlin)
BV	Kunkel et al. (1987) "Rapid and efficient site-specific mutagenesis without phenotypic selection" <i>Methods in Enzymol.</i> 154, 367-382
BW	Leung et al. (1989) <i>Technique</i> 1:11-15
BX	Lim and Sauer (1991) "The role of internal packing interactions in determining the structure and stability of a protein" <i>J. Mol. Biol.</i> 219:359-76
BY	Ling et al. (1997) "Approaches to DNA mutagenesis..." <i>Anal Biochem.</i> 254(2): 157-178
BZ	Mandecki, Oligonucleotide-directed double-strand break repair in plasmids of <i>Escherichia coli</i> : a method for site-specific mutagenesis" <i>Proc. Natl. Acad. Sci. USA</i> , 83:7177-7181
CA	Meador, J and Kennell, D. (1990) <i>Gene</i> 95:1
CB	Meador, J. et al. (1990) <i>Eur J. Biochem.</i> 187:549
CC	Nakamaye & Eckstein (1986) "Inhibition of restriction endonuclease Nci I cleavage by phosphorothioate groups and its application to oligonucleotide-directed mutagenesis" <i>Nucl. Acids Res.</i> 14: 9679-9698
CD	Nambiar et al. (1984) "Total synthesis and cloning of a gene coding for the ribonuclease S protein" <i>Science</i> 223:1299-1301
CE	Nikiforov et al. (1994) "The Use of Phosphorothioate Primers and Exonuclease Hydrolysis for the Preparation of Single-Stranded PCR Products and their Detection by Solid-Phase Hybridization," <i>PCR Methods and Applications</i> 3:285-291
CF	Ostermeier et al. (1999) "A combinatorial approach to hybrid enzymes independent of DNA homology" <i>Nature Biotech</i> 17:1205
CG	Ostermeier et al. (1999) "Combinatorial Protein Engineering by Incremental Truncation," <i>Proc. Natl. Acad. Sci. USA</i> , 96: 3562-67

Examiner Signature		Date Considered	7/19/09
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

OIPE
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Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>	Complete if Known	
	Application Number	09/056549-09/721,807
	Filing Date	September 6, 2000 11-22-00
	First Named Inventor	Joseph A. Affholter
	Group Art Unit	1645
	Examiner Name	Unassigned
	Attorney Docket Number	02-104240US

CH	Ostermeier et al. (1999), "Incremental Truncation as a Strategy in the Engineering of Novel Biocatalysts," <i>Biological and Medicinal Chemistry</i> , 7: 2139-44
CI	Porter et al. (1997) <i>Nucleic Acids Res.</i> 25(8):1611-1617
CJ	Reidhaar-Olson et al. (1988) <i>Science</i> , 241:53-57
CK	Reidhaar-Olson et al. (1991) <i>Methods Enzymol.</i> 208:564-86
CL	Sakamar and Khorana (1988) "Total synthesis and expression of a gene for the a-subunit of bovine rod outer segment guanine..." <i>Nucl. Acids Res.</i> 14: 6361-6372
CM	Sayers et al. (1988) "Strand specific cleavage of phosphorothioate-containing DNA by reaction with restriction endonucleases..." <i>Nucl. Acids Res.</i> 16: 803-814
CN	Smith (1985) "In vitro mutagenesis" <i>Ann. Rev. Genet.</i> 19:423-462
CO	Stemmer et al., (1995) "Single-step assembly of a gene and entire plasmid from large numbers of oligodeoxy-ribonucleotides" <i>Gene</i> , 164:49-53
CP	Taylor et al. (1985) "The rapid generation of oligonucleotide-directed mutations at high frequency using phosphorothioate-modified DNA" <i>Nucl. Acids Res.</i> 13: 8765-8787 (1985)
CQ	Taylor et al. (1985) "The use of phosphorothioate-modified DNA in restriction enzyme reactions to prepare nicked DNA" <i>Nucl. Acids Res.</i> 13: 8749-8764
CR	Wells et al. (1985) "Cassette mutagenesis: an efficient method for generation of multiple mutations at defined sites" <i>Gene</i> 34:315-323
CS	Wells et al. (1986) "Importance of hydrogen-bond formation in stabilizing the transition state of subtilisin" <i>Phil. Trans. R. Soc. Lond. A</i> 317: 415-423
CT	Zhao and Arnold (1997) "Functional and nonfunctional mutations distinguished by random recombination of homologous genes," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 94(15):7997-8000
CU	Zhao, et al., "Molecular evolution by staggered extension process (StEP) <i>in vitro</i> recombination," <i>Nature Biotechnology</i> (March 1998), 16(3):258-61
CV	Zhou et al., (1995) <i>Biotechniques</i> 19:34-35
CW	Zhou et al., (1998) "Regulatory Roles of the P Domain of the Subtilisin-like Prohormone Convertases," <i>J. Biol. Chem.</i> , 273(18):11107
CX	Zoller & Smith (1982) "Oligonucleotide-directed mutagenesis using M13-derived vectors: an efficient and general procedure for the production of point mutations in any DNA fragment" <i>Nucleic Acids Res.</i> 10:6487-6500
CY	Zoller & Smith (1983) "Oligonucleotide-directed mutagenesis of DNA fragments cloned into M13 vectors" <i>Methods in Enzymol.</i> 100:468-500
CZ	Zoller & Smith (1987) "Oligonucleotide-directed mutagenesis: a simple method using two oligonucleotide primers" <i>Methods in Enzymol.</i> 154:329-350

Examiner Signature	<i>Diana P...</i>	Date Considered	7/9/09
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